

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
17856-002US1Application No.  
10/500,093**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant  
Khalaf et al.Filing Date  
June 24, 2004Group Art Unit  
1654**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/J.H./	AA	WO 97/28123	07.08.97	WIPO				
	AB	WO 97/30975	28.08.97	WIPO				
	AC	WO 98/21202	22.05.98	WIPO				
	AD	WO 01/19792 A1	22.03.01	WIPO				
	AE	WO 01/74898 A2	11.10.01	WIPO				
	AF	WO 02/00650 A2	03.01.02	WIPO				
	AG	0 343 893 A1	22.05.89	EP				
	AH	WO 02/100832 A1	19.12.02	WIPO				
/J.H./	AI	WO 02/101007 A2	19.12.02	WIPO				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document	
		Author	Document
/J.H./	AJ	Bloomfield et al.	"Electronic and Vibrational Spectroscopy" <u>Nucleic Acids: Structures, Properties and Functions</u> , pages 176-180 and 561-564, (2000).
	AK	Abedawn I. Khalaf et al.	"The Synthesis of Some Head to Head Linked DNA Minor Groove Binders" <u>Tetrahedron</u> , Vol. 56: pages 5225-5239 (2000).
	AL	B.S. Praveen Reddy et al.	"Synthetic DNA minor groove-binding drugs" <u>Pharmacology &amp; Therapeutics</u> , Vol. 84: pages 1-111 (1999).
	AM	Bernhard H. Geierstanger et al.	"Design of A G-C-Specific DNA Minor Groove-Binding Peptide" <u>Science</u> , Vol. 266: pages 646-651 (1994).
	AN	Bertrand Plouvier et al.	"Antitumor Combilexin. A Thiazole-Containing Analogue of Netropsin Linked to an Acridine Chromophore" <u>Bioconjugate Chem.</u> , Vol. 5: pages 475-481 (1994).
	AO	Bertrand Plouvier et al.	"Influence of the methyl substituents of a thiazole-containing lexitropsin on the mode of binding to DNA" <u>Anti-Cancer Drug Design</u> , Vol. 10: pages 155-166 (1995).
	AP	Christian Bailly et al.	"Binding Properties and DNA Sequence-Specific Recognition of Two Bithiazole-Linked Netropsin Hybrid Molecules" <u>Biochemistry</u> , Vol. 31: pages 8349-8362 (1992).
	AQ	David E. Wemmer.	"Ligands Recognizing the Minor Groove of DNA: Development and Applications" <u>Biopolymers (Nucleic Acid Sciences)</u> , Vol. 52: pages 197-211, 2001.
	AR	Dmitry V. Bugreev et al.	"Inhibition of Human DNA Topoisomerase I by New DNA Minor Groove Ligands: Derivatives of Oligo-1,3-Thiazolecarboxamides" <u>Antisense &amp; Nuclear Acid Drug Development</u> , Vol. 11: 137-147 (2001).
/J.H./	AS	E.L. Vasyutina et al.	"Interaction of the Human Topoisomerase I-DNA Complex with Oligo-1,3-Thiazolecarboxamides and Their Oligonucleotide Conjugates" <u>Molecular Biology</u> , Vol. 34, No. 34: pages 356-362 (2000).

Examiner Signature

/Julie Ha/

Date Considered

01/05/2009

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Applicant <b>Khalaf et al.</b>	
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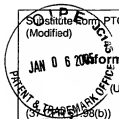
(Use several sheets if necessary)

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**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
J.H./	AT	Guojian Xie et al., "Bisindolylmaleimides Linked to DNA Minor Groove Binding Lexitropsins: Synthesis, Inhibitory Activity against Topoisomerase I, and Biological Evaluation" <u>Journal of Medicinal Chemistry</u> , Vol. 39: pages 1049-1055 (1996).
	AU	Jakob Bunkenborg et al., "NMR Characterization of the DNA Binding Properties of a Novel Hoechst 33258 Analogue Peptide Binding Block" <u>Bioconjugate Chem.</u> , Vol. 13: pages 927-936 (2002).
	AV	John W. Trauger et al., "Recognition of 16 Base Pairs in the Minor Groove of DNA by a Pyrrole-Imidazole Polyamide Dimer" <u>Journal of the American Chemical Society</u> , Vol. 120: pages 3534-3535 (1998).
	AW	K. Ekambareswara Rao et al., "Synthesis of Novel Thiazole-Containing DNA Minor Groove Binding Oligopeptides Related to the Antibiotic Distamycin" <u>J. Org. Chem.</u> , Vol. 55: pages 728-737 (1990).
	AX	K.E. Rao, et al., "Molecular recognition between oligopeptides and nucleic acids: DNA sequence specificity and binding properties of thiazole-lexitropsins incorporating the concepts of base site acceptance and avoidance" <u>Anti-Cancer Drug Design</u> , Vol. 5: pages 3-20 (1990).
	AY	K.F. Tsuchin et al., "Ligands Possessing Affinity for Definite Pairs of DNA Bases" <u>SOVIET J. BIOORG. CHEM. (ENG. TRANSL.)</u> , Vol. 4: pages 780-791 (1978).
	AZ	Leif Grehn et al., "Synthesis and Antiviral Activity of Distamycin A Analogues: Substitutions on the Different Pyrrole Nitrogens and in the Amidine Function" <u>Journal of Medicinal Chemistry</u> , Vol. 26: pages 1042-1049 (1983).
	AAA	Liliane A. Dickinson et al., "Inhibition of RNA polymerase II transcription in human cells by synthetic DNA-binding ligands" <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 95: pages 12890-12895 (1998).
	ABB	Lu Ding et al., "Synthesis and Antiviral Activity of Three Pyrazole Analogues of Distamycin A" <u>Acta Chemica Scandinavica</u> , Vol. 48: pages 498-505 (1994).
	AGG	Milan Mrksich et al., "Antiparallel side-by-side dimeric motif for sequence-specific recognition in the minor groove of DNA by the designed peptide 1-methylimidazole-2-carboxamide netropsin" <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 89: pages 7586-7590 (1992).
	ADD	Moses Lee et al., "GC Base Sequence Recognition by Oligo(imidazolecarboxamide) and C-Terminus-Modified Analogues of Distamycin Deduced from Circular Dichroism, Proton Nuclear Magnetic Resonance, and Methidiumpropylethylenediaminetetraacetate-Iron(II) Footprinting Studies" <u>Biochemistry</u> , Vol. 32: pages 4237-4245 (1993).
	AEE	Natalia B. Dyatkina et al., "Minor Groove DNA Binders as Antimicrobial Agents. 1. Pyrrole Tetraamides Are Potent Antibacterials against Vancomycin Resistant <i>Enterococci</i> and Methicillin Resistant <i>Staphylococcus aureus</i> " <u>Journal of Medicinal Chemistry</u> , Vol. 45: pages 805-817 (2002).
	AFF	Nicholas R. Wurtz et al., "Inhibition of DNA Binding by NF-kB with Pyrrole-Imidazole Polyamides" <u>Biochemistry</u> , Vol. 41: pages 7604-7609 (2002).
	AGG	Nouri Neamati et al., "Highly Potent Synthetic Polyamides, Bisdistamycins, and Lexitropsins as Inhibitors of Human Immunodeficiency Virus Type 1 Integrase" <u>Molecular Pharmacology</u> , Vol. 54: 280-290 (1998).
	AHH	Peter B. Dervan, "Molecular Recognition of DNA by Small Molecules" <u>Bioorganic &amp; Medicinal Chemistry</u> , Vol. 9: pages 2215-2235 (2001).
	AII	Robert V. Fishleigh et al., "DNA Binding, Solubility, and Partitioning Characteristics of Extended Lexitropsins" <u>Journal of Medicinal Chemistry</u> , Vol. 43: pages 3257-3266 (2000).
J.H./	AJJ	Roland W. Burli et al., "DNA Binding Ligands with Excellent Antibiotic Potency Against Drug-Resistant Gram-Positive Bacteria" <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , Vol. 12: pages 2591-2594 (2002).

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## Other Documents (include Author, Title, Date, and Place of Publication)

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/J.H./	AKK	Rulin Zhao et al., "Synthesis and Biological Evaluation of Hybrid Molecules Containing the Pyrroloquinoline Nucleus and DNA Minor Groove Binders" <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , Vol. 6, No. 18: pages 2169-2172 (1996).
	ALL	S.M. Sondhi et al., "Lexitropsin Conjugates: Action on DNA Targets" <u>Current Medicinal Chemistry</u> , Vol. 4: pages 313-358 (1997).
	AMM	Sanjay K. Sharma et al., "Design and synthesis of new thiazolated cross-linked DNA binding polyamides for altered sequence recognition" <u>Tetrahedron</u> , Vol. 58: pages 3417-3421 (2002).
	ANN	Sanjay K. Sharma et al., "Design and Synthesis of Novel Thiazole-Containing Cross-Linked Polyamides Related to the Antiviral Antibiotic Distamycin" <u>J. Org. Chem.</u> , Vol. 65: pages 1102-1107 (2000).
	AOO	Sanjay K. Sharma et al., "Design, Synthesis, and Intracellular Localization of a Fluorescently Labeled DNA Binding Polyamide Related to the Antibiotic Distamycin" <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , Vol. 11: pages 769-772 (2001).
	APP	Sanjay K. Sharma et al., "Inhibition of Feline Immunodeficiency Virus (FIV) Replication DNA Binding Polyamides" <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , Vol. 12: pages 2007-2010 (2002).
	AQQ	Silvana Frau et al., "Binding of a Porphyrin Conjugate of Hoechst 33258 to DNA. II. NMR Spectroscopic Studies Detect Multiple Binding Modes to A 12-MER Nonself-Complementary Duplex DNA" <u>Nucleosides, Nucleotides &amp; Nucleic Acids</u> , Vol. 20(1&2), 145-156 (2001).
	ARR	Tammy J. Dwyer et al., "Design and Binding of a Distamycin A Analog to d(CGCAAGTTGGC)•d(GCCAACTTGGC): Synthesis, NMR Studies, and Implications for the Design of Sequence-Specific Minor Groove Binding Oligopeptides" <u>Journal of the American Chemical Society</u> , Vol. 114, No. 15: pages 5910-5919 (1992).
	ASS	Vladimir A. Ryabinin et al., "Synthesis and Evaluation of Oligo-1,3-thiazolecarboxamide Derivatives as HIV-1 Reverse Transcriptase Inhibitors" <u>Bioorganic &amp; Medicinal Chemistry</u> , Vol. 8: pages 985-993 (2000).
	ATT	Xiaogang Han et al., "Sequence Specific Recognition of Ligand-DNA Complexes Studied by NMR" <u>Current Medicinal Chemistry</u> , Vol. 8: pages 551-581 (2001).
/J.H./	AUU	Yanwu Yang et al., "Studies on Cooperative Binding of an Extended Distamycin A Analogue in the Minor Groove of DNA by NMR Spectroscopy" <u>Biochemical and Biophysical Research Communications</u> , Vol. 222: pages 764-769 (1996).

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